16.0 AOC 24 – RANGE 24A

16.1 LOCATION OF STUDY AREA

Range 24A comprises approximately 17 acres within the Cantonment Area at the Fort McClellan, Alabama Army Installation (Fig. 1). The study area boundary was devised by adding a 100-ft buffer outside of the Range 24A site boundary.

16.2 AERIAL PHOTOGRAPH QUALITY ISSUES

A few photograph quality issues were encountered during photograph interpretation. They were corrected as follows:

- X Quality In many areas of the photographs, the dynamic range of brightness values was insufficient to distinguish land cover classes. Due to extreme brightness (almost white), ground cover such as grass, bare soil, trails, and roads could not be differentiated. Buildings could only be differentiated from paved areas by stereo viewing. Where appropriate, problem areas of the photographs were subset and image enhancement techniques were applied. Simple adjustments to the brightness and contrast were conducted, or in more severe cases, a histogram equalization in the range of the lookup table was performed on the specific area where interpretation was difficult.
- **X** Rectification Although second- and third-order transformations were used in the rectification of the digital photographs, all of the photograph rectification within Range 24A contained too much error to accurately digitize land use/cover polygons. The primary factor contributing to the error was terrain distortion. Factors contributing to the error included: (1) insufficient ground control points (GCPs) due to pronounced changes in land cover between years, (2) photographic distortion (location of the site in relation to the center of the photograph and the angle of the camera/aircraft when the photograph was acquired), and (3) terrain distortion (a single photograph may cover a large geographic area of varying elevations even though the site of interest may have little topographic relief). To improve the photographs in question and the newly-created image files were rectified separately. There were no 1937 photographs available for interpretation.

16.3 FINDINGS

Complete photographic coverage of the study area was available for seven years of photographic coverage from 1940 to 1994. A total of 276 anomalies were identified in the year-by-year land cover analysis (Fig. 2). All anomalies were inspected to ascertain the cause of each anomaly. All anomalies were resolved except for 12 unidentified objects, structures, or piles. Anomalies potentially associated with waste disposal or chemical training activities were determined to be of potential concern and should be assessed by the USAESCH. During the final quality assurance review of the land use/cover anomalies, three anomalies were determined to be caused by photographic interpretation error. These anomalies are identified as "QA" in Table 2 and will not be discussed further. Of the anomalies identified, 206 were caused by new roads, pre-existing and former roads and trails, construction and removal of buildings, pre-existing and former unidentified objects,

and pre-existing and former cleared areas. The remaining 67 anomalies are of potential concern and were the result of trails, unidentified structures, and the clearing of trees and groundcover.

1937. There were no 1937 photographs available for interpretation (see Fig. 3a).

1937 to 1940. Since there were no 1937 photographs available for interpretation, the land use/cover was not available. The 1940 photographs were interpreted and no anomalies were identified (see Fig. 3b).

1940 to 1944. There were no anomalies identified during the land cover change analysis for the years 1940 and 1944 (see Table 1 and Fig. 3c).

1944 to 1954. Nineteen anomalies were identified during the land cover change analysis for the years 1944 and 1954 (see Table 1 and Fig. 3d). Three of the anomalies were the result of new roads. The remaining sixteen anomalies are of potential concern and were the result of the clearing of trees (10 anomalies), cleared areas (4 anomalies), and trails (2 anomalies).

1954 to 1961. Sixty-three anomalies were identified during the land cover change analysis for the years 1954 and 1961 (see Table 1 and Fig. 3e). Fifty-two of the anomalies were the result of new roads, pre-existing and former roads, and pre-existing and former cleared areas. The remaining eleven anomalies are of potential concern and were the result of trails (6 anomalies) and unidentified structures (5 anomalies).

1961 to 1969. Forty-nine anomalies were identified during the land cover change analysis for the years 1961 and 1969 (see Table 1 and Fig. 3f). Twenty-eight of the anomalies were the result of new roads, pre-existing and former roads, pre-existing and former trails, pre-existing and former cleared areas, the clearing of trees associated with road construction, and pre-existing unidentified structures. The remaining twenty-one anomalies are of potential concern and were the result of the clearing of trees (8 anomalies), cleared areas (8 anomalies), unidentified objects (3 anomalies), trails (1 anomaly), and unidentified structures (1 anomaly).

1969 to 1982. Ninety-eight anomalies were identified during the land cover change analysis for the years 1969 and 1982 (see Table 1 and Fig. 3g). Eighty-five of the anomalies were the result of new roads, pre-existing and former roads, pre-existing and former cleared areas, the clearing of trees associated with road construction, former unidentified structures, and former unidentified objects. The remaining thirteen anomalies are of potential concern and were the result of trails (4 anomalies), unidentified piles (3 anomalies), the clearing of trees (3 anomalies), and other cleared areas (3 anomalies).

1982 to 1994. Forty-four anomalies were identified during the land cover change analysis for the years 1982 and 1994 (see Table 1 and Fig. 3h). Thirty-eight of the anomalies were the result of new, pre-existing, and former roads, former trails, buildings, parking lots, landscaping, and a trail that was a former road. The remaining six anomalies are of potential concern and were the result of trails (3 anomalies) and the clearing of trees (3 anomalies).

Figure 1

Figure 2

Table 1. Range 24A - Anomaly Resolution

Of Potential Concern?	Anomaly #	Year of Change	Discussion Discussion	Related Anomalies ¹	
	1	1954	Road	20, 85, 135, 233	
	2	1954	Road	21, 23, 38, 39, 49, 51, 54, 55, 59 - 62, 64, 65, 68, 76, 83, 86, 116, 124, 136, 162, 196, 205, 231, 234, 270, 271	
Yes	3	1954	Trees cleared	None	
Yes	4	1954	Trees cleared	None	
Yes	5	1954	Cleared area	22, 46	
Yes	6	1954	Cleared area	24 - 32, 40, 41, 47, 48, 50, 56, 57, 102, 103, 159, 163 - 165, 171, 176, 179 - 181, 187	
Yes	7	1954	Trees cleared	44	
Yes	8	1954	Trail	33	
Yes	9	1954	Trees cleared	None	
Yes	10	1954	Trees cleared None		
Yes	11	1954	Trees cleared	11	
Yes	12	1954	Cleared area 63, 66, 67, 81, 82		
Yes	13	1954	Cleared area	73 - 75, 77, 120 - 122, 230	
Yes	14	1954	Trees cleared	None	
Yes	15	1954	Trees cleared	230	
Yes	16	1954	Trail	78, 128, 129, 131	
Yes	17	1954	Trees cleared	None	
Yes	18	1954	Trees cleared	None	
	19	1954	Road	79, 130, 229	
	20	1961	Pre-existing road (first visible 1954)	1, 85, 135, 233	
	21	1961	Pre-existing road (first visible 1954)	2, 86, 136, 162, 196, 231, 234	
	22	1961	Former cleared area (first visible 1954)	5	
	23	1961	Former road (first visible 1954)	2	
	24	1961	Pre-existing cleared area (first visible 1954)	6, 103, 159, 176, 179 - 181	
	25	1961	Road (former cleared area - first visible 1954)	6, 86, 101, 136, 160, 166 - 170, 234	

Of Anomaly Year of Change Concern?		Discussion	Related Anomalies ¹		
	26	1961	Former cleared area (first visible 1954)	6	
	27	1961	Pre-existing cleared area (first visible 1954)	6, 102, 163 - 165, 171, 187	
Yes	28	1961	Unidentified structure (former cleared area - first visible 1954)	6, 109, 173	
Yes	29	1961	Unidentified structure (former cleared area - first visible 1954)	6, 108, 174	
Yes	30	1961	Unidentified structure (former cleared area - first visible 1954)	6, 107, 175	
Yes	31	1961	Unidentified structure (former cleared area - first visible 1954)	6, 106, 177, 178	
Yes	32	1961	Unidentified structure (former cleared area - first visible 1954)	6, 104, 182, 183	
	33	1961	Former trail (first visible 1954)	8	
	34	1961	QA		
	35	1961	Road	86, 136, 234	
	36	1961	Road	86, 136, 234	
	37	1961	Road	86, 136, 234	
	38	1961	Pre-existing road (first visible 1954)	2, 86, 136, 234	
	39	1961	Former road (first visible 1954)	2	
	40	1961	Former cleared area (first visible 1954)	6	
	41	1961	Former cleared area (first visible 1954)	6	
	42	1961	Road	86, 136, 234	
	43	1961	Road	86, 136, 234	
	44	1961	Road (former cleared area - first visible 1954)	7, 86, 136, 234	
	45	1961	Road	86, 136, 234	
	46	1961	Road (former cleared area - first visible 1954)	5, 86, 231, 234	
	47	1961	Former cleared area (first visible 1954)	6	
Yes	48	1961	Trail (former cleared area - first visible 1954) 6, 92, 114		
Yes	49	1961	Trail (section of former road - first visible 1954)		
Yes	50	1961	Trail (former cleared area - first visible 1954) 6, 89		
Yes	51	1961	Trail (section of former road - first visible 1954)	2, 89	
Yes	52	1961	Trail (former cleared area - first visible 1954)	89	

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
Yes	53	1961	Trail	92
	54	1961	Former road (first visible 1954)	2
	55	1961	Former road (first visible 1954)	2
	56	1961	Former cleared area (first visible 1954)	6
	57	1961	Road (former cleared area - first visible 1954)	6, 86, 231, 234
	58	1961	Road	86, 231, 234
	59	1961	Pre-existing road (first visible 1954)	2, 86, 116, 205, 231, 270, 271
	60	1961	Former road (first visible 1954)	2
	61	1961	Former road (first visible 1954)	2
	62	1961	Former road (first visible 1954)	2
	63	1961	Former cleared area (first visible 1954)	12
	64	1961	Former road (first visible 1954); incorrectly coded as cleared	2
	65	1961	Former road (first visible 1954)	2
	66	1961	Former cleared area (first visible 1954)	12
	67	1961	Pre-existing cleared area (first visible 1954)	12, 120, 121, 230
	68	1961	Pre-existing road (first visible 1954)	2, 86, 124, 231
	69	1961	Road	86, 213, 214, 215
	70	1961	QA	
	71	1961	Trees cleared (associated with road construction)	86
	72	1961	Road	86, 136, 234
	73	1961	Former cleared area (first visible 1954)	13
	74	1961	Former cleared area (first visible 1954)	13
	75	1961	Pre-existing cleared area (first visible 1954)	13, 120 - 122, 230
	76	1961	Former road (first visible 1954)	2
	77	1961	Road (former cleared area - first visible 1954)	13, 124, 132, 133, 222, 225, 226, 230, 234
	78	1961	Pre-existing trail (first visible 1954)	16, 128, 129, 131
	79	1961	Pre-existing road (first visible 1954)	19, 130, 229

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹	
	80 1961 Road		Road	86, 116, 123, 136, 232, 234, 271	
	81	1961	Former cleared area (first visible 1954)	12	
	82	1961	Road (former cleared area - first visible 1954)	12, 86, 231, 234	
	83	1961	Former road (first visible 1954)	2	
	84	1961	Road	11, 86, 231, 234	
	85	1969	Pre-existing road (first visible 1954)	1, 20, 135, 233	
	86	1969	Pre-existing road (partially visible 1954; partially visible 1961)	2, 21, 25, 35, 36 - 38, 42 - 46, 57 - 59, 68, 69, 71, 72, 80, 82, 84, 136, 160, 162, 166 - 170, 196, 213 - 215, 231, 234	
	87	1969	Road	136, 234	
	88	1969	Road	136, 189 - 191	
	89	1969	Former trail (first visible 1961)	50 - 52	
Yes	90	1969	Trail 197, 234		
Yes	91	1969	Trees cleared	199	
	92	1969	Former trail (first visible 1961)	48, 49, 53	
Yes	93	1969	Trees cleared	199	
Yes	94	1969	Unidentified object	148, 150, 154, 156, 158	
Yes	95	1969	Cleared area	147, 152, 153, 155, 157, 194	
Yes	96	1969	Trees cleared	138, 139, 142	
Yes	97	1969	Trees cleared	143	
Yes	98	1969	Trees cleared	None	
Yes	99	1969	Cleared area 144 - 146, 211		
Yes	100	1969	Unidentified structure	208 - 210	
	101	1969	Former road (first visible 1961)	25	
	102	1969	Pre-existing cleared area (first visible 1954)	6, 27, 163 - 165, 171, 187	
	103	1969	Pre-existing cleared area (first visible 1954)	6, 24, 159, 176, 179 - 181	
	104	1969	Pre-existing unidentified structure (first visible 1961)	32, 182, 183	
Yes	105	1969	Unidentified object	184 - 186	

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	106	1969	Pre-existing unidentified structure (first visible 1961)	31, 177, 178
	107	1969	Pre-existing unidentified structure (first visible 1961)	31, 175
	108	1969	Pre-existing unidentified structure (first visible 1961)	29, 174
	109	1969	Pre-existing unidentified structure (first visible 1961)	28, 173
Yes	110	1969	Unidentified object	172
Yes	111	1969	Trees cleared	None
Yes	112	1969	Trees cleared	None
Yes	113	1969	Trees cleared	None
	114	1969	Former trail (first visible 1961)	48
Yes	115	1969	Cleared area	202, 203
	116	1969	Pre-existing road (partially visible 1954; partially visible 1961); incorrectly coded as cleared (road difficult to discern through cleared area).	2, 59, 80, 205, 270, 271
Yes	117	1969	Cleared area	206
Yes	118	1969	Cleared area	206, 207
Yes	119	1969	Cleared area	206, 207
	120	1969	Former cleared area (first visible 1954)	12, 13, 67, 75
	121	1969	Pre-existing cleared area (first visible 1954)	12, 13, 67, 75, 217, 230
	122	1969	Former cleared area (first visible 1954)	13, 75
	123	1969	Pre-existing road (first visible 1961); incorrectly coded as cleared (road difficult to discern through trees)	80, 232, 271
	124	1969	Former road (first visible 1954) through pre-existing cleared area	2, 68, 77, 230
Yes	125	1969	Cleared area	216, 218, 227, 230
	126	1969	Road	219, 223, 228, 234
Yes	127	1969	Cleared area	224, 234
	128	1969	Former trail (first visible 1954)	16, 78
	129	1969	Former trail (first visible 1954)	16, 78
	130	1969	Pre-existing road (first visible 1954)	19, 79, 229

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	131	1969	Former trail (first visible 1954)	16, 78
	132	1969	Pre-existing road (first visible 1961)	77, 226, 234
	133	1969	Former road (first visible 1961)	77, 225, 234
	134	1969	QA	
	135	1982	Pre-existing road (first visible 1954)	1, 20, 85, 233
	136	1982	Pre-existing road (partially visible 1954; partially visible 1961)	2, 21, 25, 35 - 38, 42 - 45, 72, 80, 86 - 88, 234
Yes	137	1982	Trees cleared	None
Yes	138	1982	Trail	96, 236, 239
Yes	139	1982	Cleared area (anomaly when trees cleared 1969)	96
	140	1982	Road	257
	141	1982	Road	257
Yes	142	1982	Cleared area (anomaly when trees cleared 1969)	96
Yes	143	1982	Cleared area (anomaly when trees cleared 1969)	97
	144	1982	Former cleared area (first visible 1969)	99
	145	1982	Road	99, 258, 275
	146	1982	Former cleared area (first visible 1969)	99
	147	1982	Former cleared area (first visible 1969)	95
	148	1982	Former unidentified object (first visible 1969)	94
Yes	149	1982	Trail	239, 241
Yes	150	1982	Trail (former unidentified object - first visible 1969)	94, 242
Yes	151	1982	Trail	243
	152	1982	Former cleared area (first visible 1969)	95
	153	1982	Former cleared area (first visible 1969)	95
	154	1982	Former unidentified object (first visible 1969)	94
	155	1982	Former cleared area (first visible 1969)	95
	156	1982	Former unidentified object (first visible 1969)	94
	157	1982	Former cleared area (first visible 1969)	95

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	158	1982	Former unidentified object (first visible 1969)	94
	159	1982	Former cleared area (first visible 1954)	6, 24, 103
	160	1982	Former road (first visible 1961)	25, 86
	161	1982	Road (pre-existing road widened)	None
	162	1982	Pre-existing road (first visible 1954); incorrectly coded as cleared area	2, 21, 86, 234
	163	1982	Former cleared area (first visible 1954)	6, 27, 102
	164	1982	Former cleared area (first visible 1954)	6, 27, 102
Yes	165	1982	Unidentified pile (former cleared area - first visible 1954)	6, 27, 102
	166	1982	Former road (first visible 1961)	25, 86
	167	1982	Former road (first visible 1961)	25, 86
	168	1982	Former road (first visible 1961)	25, 86
	169	1982	Former road (first visible 1961)	25, 86
	170	1982	Former road (first visible 1961)	25, 86
	171 1982	1982	Former cleared area (first visible 1954)	6, 27, 102
172 1982 Former uni		Former unidentified object (first visible 1969)	110	
	173	1982	Former unidentified structure (first visible 1961)	28, 109
	174	1982	Former unidentified structure (first visible 1961)	29, 108
	175	1982	Former unidentified structure (first visible 1961)	30, 107
	176	1982	Former cleared area (first visible 1954)	6, 24, 103
	177	1982	Former unidentified structure (first visible 1961)	31, 106
	178	1982	Former unidentified structure (first visible 1961)	31, 106
	179	1982	Former cleared area (first visible 1954)	6, 24, 103
Yes	180	1982	Unidentified pile	6, 24, 103
	181	1982	Former cleared area (first visible 1954)	6, 24, 103
	182	1982	Former unidentified structure (first visible 1961)	32, 104
	183	1982	Former unidentified structure (first visible 1961)	32, 104

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
Yes	184	1982	Unidentified pile (part of location of unidentified object - first visible 1969)	105
	185	1982	Former unidentified object (first visible 1969)	105
	186	1982	Former unidentified object (first visible 1969)	105
	187	1982	Former cleared area (first visible 1954)	6, 27, 102
	188	1982	Trees cleared (adjacent road widened)	None
	189	1982	Former road (first visible 1969)	88
	190	1982	Former road (first visible 1969)	88
	191	1982	Former road (first visible 1969)	88
Yes	192	1982	Trees cleared	None
	193	1982	Road	234
	194	1982	Former cleared area (first visible 1969)	95
	195	1982	Road	234
197 1982 Road (former		1982	Former road (first visible 1954)	2, 21, 86
		Road (former trail - first visible 1969)	90, 234	
Yes	198	1982	Trees cleared	None
	199	1982	Pre-existing area of cleared trees (first visible 1969)	91, 93
	200	1982	Road	234
	201	1982	Road	234
	202	1982	Former cleared area (first visible 1969)	115
	203	1982	Former cleared area (first visible 1969)	115
	204	1982	Road	234
	205	1982	Pre-existing road (partially visible 1954; partially visible 1961)	2, 59, 116, 270, 271
	206	1982	Former cleared area (first visible 1969)	117 - 119
	207	1982	Former cleared area (first visible 1969)	118, 119
	208	1982	Road (former unidentified structure - first visible 1969)	100, 234
	209	1982	Former unidentified structure (first visible 1969)	100

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹	
	210	1982	Former unidentified structure (first visible 1969)	100,234	
	211	1982	Former cleared area (first visible 1969)	99	
	212	1982	Road	234	
	213	1982	Pre-existing road (first visible 1961); incorrectly coded as forest	69, 86	
	214	1982	Pre-existing road (first visible 1961)	69, 86, 234	
	215	1982	Former road (first visible 1961)	69, 86	
	216	1982	Former cleared area (first visible 1969)	125	
	217	1982	Former cleared area (first visible 1969)	121	
	218	1982	Former cleared area (first visible 1969)	125	
	219	1982	Pre-existing road (first visible 1969)	126	
	220	1982	Road	261 - 264, 276	
	221	1982	Road	264	
	222	1982	Road (partially visible 1961)	77, 234	
	223	1982	Pre-existing road (first visible 1969)	126, 234	
	224	1982	Pre-existing road (first visible 1969)	127, 234	
	225	1982	Pre-existing road (first visible 1961)	77, 133, 234	
	226	1982	Pre-existing road (first visible 1961)	77, 132, 234	
	227	1982	Former cleared area (first visible 1969)	125	
	228 1982 Former road (first vis 229 1982 Former road (first vis 230 1982 Former cleared area (1954); incorrectly con		Former road (first visible 1969)	126	
			Former road (first visible 1954)	19, 79, 130	
			Former cleared area (first visible 1954); incorrectly coded as forest, mostly grass	12, 13, 15, 67, 75, 77, 121, 124, 125	
	231	1982	Pre-existing road (first visible 1954)	2, 21, 46, 57 - 59, 68, 82, 84, 86, 234	
	232	1982	Pre-existing road (first visible 1961)	80, 123, 271	
	233	1994	Pre-existing road (first visible 1954)	1, 20, 85, 135	

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
	234	1994	Pre-existing road (first visible 1954)	2, 21, 25, 35 - 38, 42 - 46, 57, 58, 72, 77, 80, 84, 86, 87, 90, 126, 127, 132, 133, 136, 162, 193, 195, 197, 200, 201, 204, 208, 210, 212, 214, 222 - 226, 231
	235	1994	Parking lot	None
	236	1994	Former trail (first visible 1982)	138
	237	1994	Building	None
	238	1994	Building	None
	239	1994	Parking lot (former trail - first visible 1982)	138, 149
	240	1994	Building	None
	241	1994	Former trail (first visible 1982)	149
	242	1994	Parking lot (former trail - first visible 1982)	150
	243 1994 Landscaping (former trail - first visible 1982)		151	
	244 1994 Landscaping	Landscaping	None	
	245	1994	Landscaping	None
	246	1994	Parking lot	None
	247	1994	Building	None
	248	1994	Building	None
Yes	249	1994	Trees cleared	None
	250	1994	Parking lot	None
	251	1994	Parking lot	None
	252	1994	Building	None
	253	1994	Building	None
	254	1994	Parking lot	None
	255 1994 Building		Building	None
	256	1994	Parking lot	None
	257	1994	Trail (partially overgrown road - first visible 1982)	140, 141
	258	1994	Former road (first visible 1982)	145
	259	1994	Road	None

Of Potential Concern?	Anomaly #	Year of Change	Discussion	Related Anomalies ¹
Yes	260	1994	Trail	None
	261	1994	Former road (first visible 1982)	220
	262	1994	Former road (first visible 1982)	220
	263	1994	Road (also part of former road - first visible 1982)	220
	264	1994	Former road (first visible 1982)	220, 221
	265	1994	Road	None
	266	1994	Road	None
	267	1994	Road	None
	268	1994	Road	None
Yes	269	1994	Trees cleared	None
	270	1994	Former road (first visible 1954)	2, 59, 116, 205
	271	1994	Former road (partially visible 1954; partially visible 1961)	2, 59, 80, 116, 123, 205, 232
Yes	272	1994	Trees cleared	None
Yes	273	1994	Trail None	
Yes	274	1994	Trail	None
	275	1994	Former road (first visible 1982)	145
	276	1994	Road (also part of former road - first visible 1982)	220

^T Related anomalies refer to anomalies which are carried forward from year to year (e.g., a trail) or anomalies which change (e.g., the extension or widening of a trail or cleared area).

16.4 ANOMALIES OF POTENTIAL CONCERN

Two hundred seventy-three anomalies were identified during the photographic interpretation of Range 24A. All anomalies have been resolved except for twelve unidentified objects, structures, or piles. Sixty-seven anomalies are considered to be of potential concern. To facilitate anomaly tracking, the anomalies of potential concern were mapped using the anomaly tracking number assigned in the year-by-year analysis (see Table 2 and Figs. 4a and 4b). Table 2 provides information for each anomaly of potential concern, including the anomaly tracking number, coordinates for the approximate center of the anomaly (coordinates provided in Alabama State Plane East, North American Datum [NAD] 83), the year the change occurred, and the reason for the anomaly. Figure 4a illustrates all of the anomalies of potential concern for this study area. Since many anomalies overlapped, Fig. 4b was created to illustrate the anomalies of potential concern from 1954 and 1961.

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Fig. 3c

Fig. 3e

Fig. 3g

Fig. 3h

Table 2. Range 24A - Anomalies of Concern

Anomaly #	(approximate	Plane Coordinates anomaly center)	Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
3	678456.76619	1158811.00454	1954	Trees were cleared in this area between 1944 and 1954. By 1961, ground cover was evident. The area was cleared again between 1961 and 1969 (see anomalies of potential concern 95 and 96).
4	678000.70619	1158381.57578	1954	Trees were cleared in this area between 1944 and 1954. By 1961, most of the area (excluding the center of the anomaly) had become revegetated. Reforestation of the entire area was evident by 1969.
5	678639.85597	1158631.24367	1954	This area was cleared between 1944 and 1954. By 1961, most of the area had become revegetated. The area was cleared again between 1961 and 1969 (see anomalies of potential concern 95 and 112).
6	678609.89582	1158484.77184	1954	This large area was cleared prior to the acquisition of the 1954 photographs. Numerous activities occurred in this area from 1954 through 1994. • 1961 - the western portion of the area remained clear except for the presence of several unidentified structures (anomalies of potential concern 28 through 32); the eastern portion of the area had become revegetated • 1969 - the unidentified structures present in 1961 remained within the area and a new unidentified pile was evident (see anomaly of potential concern 105); several new trails and clearings were present in the eastern portion of the anomalous area • 1982 - the unidentified piles were gone and new unidentified piles were evident (see anomalies of potential concern 165, 180, and 184); the eastern portion of the area remained clear • 1994 - parking lots and buildings covered the western portion of the study area while the eastern portion of the area remained clear
7	678433.46385	1158238.43286	1954	Trees were cleared in this area between 1944 and 1954. The 1961 photographs show that two new roads had been constructed through the area.
8	678296.97874	1158298.35316	1954	A trail was in use here in 1954. The trail was no longer evident in the photographs acquired in 1961.
9	678263.68969	1158344.95783	1954	Trees were cleared in this area between 1944 and 1954. By 1961, low ground cover and a few trees were evident in the area. By 1969, the area had become reforested.
10	679089.25816	1158381.57578	1954	Most of the trees were cleared from this area between 1944 and 1954. By 1961, the area had become reforested. Most of the area was cleared again between 1961 and 1969 (see anomaly of potential concern 115).
11	679308.96589	1158371.58907	1954	Most of the trees were cleared from this area between 1944 and 1954. By 1961, a low ground cover was present. The area was cleared again prior to 1969 (see anomalies of potential concern 117 and 118).

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Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
12	679535.33144	1158378.24688	1954	This area was cleared between 1944 and 1954. The area remained clear through 1969. By 1982, the area was mostly covered in grass and by 1994 had become reforested.
13	679831.60400	1158248.41958	1954	This area was cleared between 1944 and 1954. Most of the area contained low ground cover in 1961 and by 1969, the area was beginning to revegetate. By 1982, most of the area had become reforested and the northwestern corner was beginning to revegetate. By 1994, the entire area had become reforested.
14	679655.17203	1158131.90790	1954	Trees were cleared from this area between 1944 and 1954. In 1961, a road was present in the southern portion of the area while the remainder of the area was becoming reforested.
15	679551.97597	1158518.06089	1954	Trees were cleared from this area between 1944 and 1954. By 1961, vegetation regrowth was underway and a new road ran through the western portion of the area. The area was cleared again between 1961 and 1969 (see anomalies of potential concern 99 and 125).
16	679618.55407	1158518.06089	1954	A new trail was evident in this portion of the study area in 1954. By 1961, the trail was no longer evident.
17	679658.50093	1158571.32338	1954	Trees were cleared in this area between 1944 and 1954. By 1961, vegetation regrowth was underway. The area was reforested by 1969.
18	679958.10239	1158498.08746	1954	Trees were cleared in this area between 1944 and 1954. By 1961, vegetation regrowth was underway. The area was reforested by 1969.
28	678434.00800	1158476.70565	1961	An unidentified structure was present at this location in the 1961 photographs; however, the photographs were not of sufficient quality to interpret the structure. The structure was also evident in the 1969 photographs. By 1982, the structure was gone.
29	678414.86679	1158442.84044	1961	An unidentified structure was present at this location in the 1961 photographs; however, the photographs were not of sufficient quality to interpret the structure. The structure was also evident in the 1969 photographs. By 1982, the structure was gone.
30	678357.44318	1158419.28204	1961	An unidentified structure was present at this location in the 1961 photographs; however, the photographs were not of sufficient quality to interpret the structure. The structure was also evident in the 1969 photographs. By 1982, the structure was gone.

16.0 AOC 24 - Range 24A

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
31	678320.63317	1158453.14724	1961	An unidentified structure was present at this location in the 1961 photographs; however, the photographs were not of sufficient quality to interpret the structure. The structure was also evident in the 1969 photographs. By 1982, the structure was gone.
32	678220.50995	1158463.45405	1961	An unidentified structure was present at this location in the 1961 photographs; however, the photographs were not of sufficient quality to interpret the structure. The structure was also evident in the 1969 photographs. By 1982, the structure was gone.
48	678862.47650	1158441.36804	1961	Prior to the acquisition of the 1961 photographs, a new trail was constructed through an area which had been cleared prior to 1954. By 1969, the trail was no longer evident.
49	678897.81410	1158307.37961	1961	The 1961 photographs show a new trail that intersected an existing road in this location. By 1969, the trail was no longer evident.
50	678660.75765	1158467.87125	1961	Prior to the acquisition of the 1961 photographs, a new trail was constructed through an area which was cleared in 1954. By 1969, the trail was no longer evident.
51	678646.03365	1158339.77242	1961	Prior to the acquisition of the 1961 photographs, a new trail was constructed through an area which was cleared in 1954. By 1969, the trail was no longer evident.
52	678679.89885	1158244.06640	1961	Prior to the acquisition of the 1961 photographs, a new trail was constructed through an area which was cleared in 1954. By 1969, the trail was no longer evident.
53	678930.20691	1158198.42199	1961	A new trail was constructed through this between 1954 and 1961. By 1969, the trail was no longer evident.
90	678812.95903	1158388.23359	1969	A new trail was constructed through this area between 1961 and 1969. The trail was improved for use as a road between 1969 and 1982. The road remained apparent in the 1994 photographs.
91	678859.56370	1158358.27345	1969	Trees were cleared in this area between 1961 and 1969. The area remained cleared in 1982 and by 1994, low ground cover was present.
93	679035.99568	1158241.76177	1969	Trees were cleared in this area between 1961 and 1969. By 1982, most of the area had become reforested, while the northwestern corner of the area remained cleared. In 1994, the northwestern corner of the area contained low ground cover.
94	678423.47714	1158767.72878	1969	An unidentified object was visible in the 1969 photographs at this location. The object was not present in the 1982 photographs.

16.0 AOC 24 - Range 24A

Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
95	678426.80604	1158677.84834	1969	This area was cleared between 1961 and 1969. The unidentified object discussed as anomaly of potential concern 94 was located within this cleared area. Photographs from 1982 show that the area remained clear, with the exception of the center of the anomalous area. The center appeared to contain low ground cover. In 1994, most of the area was covered by a parking lot.
96	678789.65670	1158774.38659	1969	Trees were cleared from this area between 1961 and 1969. By 1982, the area had been cleared again (see anomalies of potential concern 139 and 142).
97	679219.08546	1158731.11082	1969	Trees were cleared from this area between 1961 and 1969. By 1982, vegetation regrowth was underway in the western portion of the anomaly; however, the eastern portion of the anomaly had been cleared again (see anomaly of potential concern 143). By 1994, the entire area had become reforested.
98	679325.61042	1158704.47958	1969	Trees were cleared from this between 1961 and 1969. The area remained mostly cleared in 1982 and by 1994, the area contained a mixture of trees and grass.
99	679129.20502	1158661.20381	1969	This area was cleared between 1961 and 1969. By 1982, revegetation of the area was underway and a road extended through the western portion of the area. By 1994, the area had become reforested and the road was no longer present.
100	679162.49407	1158581.31009	1969	An unidentified structure was present in this location in 1969. The structure was not evident in the 1982 photographs.
105	678266.08553	1158435.21975	1969	An unidentified object was present in this location in 1969. The object was not evident in the 1982 photographs.
110	678387.85056	1158520.90626	1969	An unidentified object was present in this location in 1969. The object was not evident in the 1982 photographs.
111	678800.63965	1158540.35484	1969	All of the trees were cleared in this area between 1961 and 1969. The area remained clear in 1982 and 1994. A new road extended through the area in 1994.
112	678724.53651	1158670.01205	1969	Trees were cleared in this area between 1961 and 1969. The area remained clear in 1982 and 1994. A new road extended through the area in 1994.
113	678923.25028	1158531.89893	1969	Trees were cleared in this area between 1961 and 1969. The area remained clear in 1982 and 1994. A new road extended through the area in 1994.
115	679065.59134	1158472.70760	1969	This area was cleared between 1961 and 1969. By 1982, vegetation regrowth was apparent in the eastern portion of the anomaly and the western portion remained clear. In 1994, a road extended through the northern portion of the anomaly.
117	679351.68279	1158252.85407	1969	This area was cleared between 1961 and 1969. By 1982, the area had become reforested.

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Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	118	679324.90576	1158379.69264	1969
119	679596.90404	1158186.61615	1969	This area was cleared between 1961 and 1969. By 1982, revegetation was underway. A new road was constructed in the northern portion of this area by 1994 and the remainder of the anomalous area had become reforested.
125	679516.57294	1158531.89893	1969	This area was cleared between 1961 and 1969. Some vegetation regrowth had initiated by 1982, but by 1994, most of this area contained a new road.
127	679601.13199	1158513.57781	1969	This small area was cleared between 1961 and 1969. The area remained clear through 1994.
137	678396.84589	1158854.28031	1982	Trees were cleared in this area between 1969 and 1982. A parking lot covered this area in 1994.
138	678430.13495	1158847.62250	1982	A new trail was evident in this location in the 1982 photographs. By 1994, the trail was no longer evident.
139	678683.13173	1158794.36002	1982	This area was cleared between 1969 and 1982. By 1994, a low ground cover was present within the area.
142	678972.74648	1158747.75535	1982	This area was cleared prior to the acquisition of the 1982 photographs. By 1994, a mixture of ground cover and trees were evident in the area.
143	679288.99246	1158747.75535	1982	This area was cleared between 1969 and 1982. By 1994, a combination of grass and trees was present within the area.
149	678414.70049	1158798.73619	1982	A new trail was evident in this location in 1982. By 1994, the trail was no longer present and most of the area was covered by a parking lot.
150	678407.57129	1158775.76432	1982	A new trail was evident in this location in 1982. By 1994, the trail was no longer evident and a parking lot covered most of this location.
151	678395.68928	1158721.89923	1982	A new trail was evident in this location in 1982. By 1994, the trail was no longer evident.
165	678287.16698	1158556.34330	1982	An unidentified pile was evident in this location in 1982. By 1994, the pile was no longer present.
180	678261.81870	1158492.97261	1982	An unidentified pile was evident in this location in 1982. By 1994, the pile was no longer present.
184	678263.40297	1158454.15807	1982	An unidentified pile was evident in this location in 1982. By 1994, the pile was no longer present.
192	678519.26213	1158182.45623	1982	A few trees were cleared from this area between 1969 and 1982. By 1994, vegetation regrowth was underway.

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Anomaly #	Alabama State Plane Coordinates (approximate anomaly center)		Year of Change	Discussion
	X-Coordinate	Y-Coordinate		
198	678720.95802	1158163.59652	1982	Trees were cleared from this area between 1969 and 1982. In 1994, the area remained clear and a new trail extended through the anomaly.
249	678561.35462	1158743.17810	1994	Trees were cleared in this area between 1982 and 1994.
260	679365.55728	1158624.58586	1994	A new trail was evident in this location in the 1994 photographs.
269	679171.90734	1158537.23247	1994	Trees were cleared in this small area between 1982 and 1994.
272	678699.77626	1158225.11724	1994	Trees were cleared in this area between 1982 and 1994.
273	678826.27465	1158201.81491	1994	A new trail was evident in this location in the 1994 photographs.
274	678699.77626	1158158.53914	1994	A new trail was evident in this location in the 1994 photographs.

16.0 AOC 24 – Range 24A

Fig. 4

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